# Approved For Release 1999/08/25 : CIA-RDP78-03362A000700020005-5 <u>THE RCUND EARTH ON FLAT PAPER</u>

#### A Scale

- l. The importance of scale
  - a. Controls amount of detail shown on maps
  - b. Determines the size of the sheet
  - c. Influences the choice of projection to use
- 2. Representative Fraction R.F.
- 3. Examples of large, medium, and small scales

## B Introduction to map projections

- 1. There are many different projections
- 2. The problem of flattening out the globe's surface
- 3. Characteristics of maps
  - a. Orthomorphic conforms to true shape
  - b. Equal-area ∽ areas have correct size
  - c. Azimuthal all radial distances are true
- 4. Three methods of drawing maps
  - a. Orthographic as viewed from an infinite distance
  - b. Stereographic as viewed from the opposite surface of the globe
  - c. Gnomonic as viewed from the center of the globe

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### The Round Earth On Flat Paper (continued)

- 5. Examples of map projections
  - a. Mercator all compass directions are ture
    - (1) Transverse Mercator follows great circle route
  - b. Polyconic accurate for large scale maps
    - (1) Transverse polyconic earth's axis turned 90°
  - c. Lambert conformal conic good for mid-latitudes